The University of Newcastle

Conferring of Degrees

FACULTY OF ARCHITECTURE
FACULTY OF EDUCATION
FACULTY OF ENGINEERING

Friday 12th May, 1989
10.00am
THE ARMS OF THE UNIVERSITY OF NEWCASTLE

The Arms of the University, granted in 1965, are based upon those of the Shortland family. This is appropriate as it was Lieutenant John Shortland, R.N., who discovered the entrance to the Hunter River where Newcastle now is. On 9th September, 1797, Shortland was pursuing escaped convicts when he entered the river. At the foot of the cliffs on the island lying off the river entrance, Nobby's, his men found coal. The mineral was first shipped from “Coal Harbour” in 1799. The harbour became Port Hunter and the town was named, in 1804, after the then Secretary of State for The Colonies, Lord Newcastle. The site on which the University has been developed is in Shortland. For those interested in heraldry the inscription on the Crest of Arms is:-

Azure a Sea Horse naiant in dexter chief a representation of the constellation of the Southern Cross of five Mullets all Argent.

ORDER OF PROCEEDINGS

The Congregation stands as the Procession enters the Hall.

The National Anthem

The Chancellor, The Honourable Justice Elizabeth Evatt, AO.

The Dean, Professor A. W. Roberts, will present the candidates for admission to honorary degrees in the Faculty of Engineering.

Dr. W. L. Hughes will deliver the Occasional Address.

The Dean, Professor B. S. Maitland, will present candidates for admission to degrees in the Faculty of Architecture.

The Dean, Dr. S. F. Bourke, will present candidates for admission to degrees in the Faculty of Education.

The Dean, Professor A. W. Roberts will present candidates for admission to degrees in the Faculty of Engineering.

A graduate will speak on behalf of the graduates.

The Vice-Chancellor, Professor K. J. Morgan.

The Congregation stands as the Procession leaves the Hall.

Organist: Michael Dudman
WALTER LAURENCE HUGHES,
C.B.E., BE(Syd), BSc(Syd), DPhil(Oxf)

Presented for admission to the Honorary Degree of
Doctor of Engineering by the Dean of the Faculty of Engineering,
Professor A.W. Roberts.

Chancellor,

It is most important that this University, from time to time at graduation ceremonies such as this, honour distinguished scholars, industrialists and members of the community for their outstanding contributions to their profession and society. On this occasion we honour a person whose roots lie in the Hunter Valley, who gained high academic distinction and who, through his long professional career as a Professional Engineer, Company Manager and member of many important Boards and Councils associated with research, education and industry, has made a most valuable contribution to the industrial development of Australia.

Dr Walter Laurence Hughes was born in Newcastle. He was educated at Maitland Boys High School and the University of Sydney, where he graduated with degrees in Science and Engineering in 1939 gaining first class honours. He was awarded a Rhodes Scholarship in 1939 which he took up later following World War II. He undertook post graduate studies at Oxford University where he gained his Doctor of Philosophy degree for research into marine propellor blade vibrations. Before returning to Australia he spent two years studying shipyards and shipbuilding techniques in Britain and on the Continent. Later in Australia, with B.H.P. he was responsible for the introduction to Wylalla of welded ship construction. At the B.H.P Wylalla Shipyard he held the positions of Assistant Naval Architect (1939-46) and Officer-in-Charge of Ship Construction (1951-54).

In 1954 Dr Hughes became General Manager of Walkers Limited, Maryborough, Queensland. Under his management, the Company became a national force responsible not only for shipbuilding, but also for other areas including sugar mill machinery, which had significant export markets, and railway engineering. With respect to the latter, a new type of diesel-hydraulic locomotive resulted in large orders from the Queensland Government Railways and from the N.S.W. State Rail Authority. Dr Hughes successfully saw Walkers Limited through its transition to stainless steel electric suburban rolling stock and mechanical equipment for draglines. Dr Hughes remained as Manager of Walkers until 1975, at which time he became Managing Director remaining in this office until 1981. He was Chairman of Walkers Limited during 1978-81.

Dr Hughes' contributions have received widespread recognition by his appointment at various times to Boards and Councils in industry and education. These appointments include: Director of Evans Deakin Industries (Since 1981), Director of M.I.M. Holdings Ltd (since 1973), Director of Hyne and Son Pty Ltd (since 1971), Chairman of the Australian Industrial Incentives Board (1981-83), Member of the Executive of the CSIRO (1978-82), Member of the Australian Manufacturing Council (1977-81), Chairman of the Export Finance and Insurance Corporation (1977-80), Member of the Consultative Council of Export Payments Insurance Corporation (1967-73), Member of the Universities Commission (1965-77) and Universities Council (1977-79), Member of the American Bureau of Shipping (since 1973), Chairman of the Australia's Shipbuilding Association (1972-73), Member of the Manufacturing Industries Advisory Council (1970-76), Member of the Australian Manufacturing Council (1977-81) and Councillor of the Metal Trades Industry Association Queensland (1955-78).

Dr Hughes became a Commander of the British Empire (C.B.E.) in 1980 and in 1983, his service to the Engineering Profession was recognised by The Institution of Engineers Australia when he was awarded the A.G.M Michell Medal. This prestigious award is presented annually by the Institution's College of Mechanical Engineering. Dr Hughes received this award for 'long standing eminence in Mechanical Engineering'.

Chancellor, it is my strong personal belief, that Australia's engineering capability is amongst the best (if not the best) in the world. This is exemplified by our history of innovation and inventiveness and by the quality of the contributions made by eminent engineers such as Dr Hughes. Iam personally grateful that Dr Hughes accepted the invitation of the University to be present today to receive the Honorary Degree of Doctor of Engineering. By so doing he becomes a member the
University and, in a symbolic way, becomes linked with our Faculty of Engineering. Our Faculty has a strong and widely recognised research and industrial consultancy record and a commitment through the processes of education to the provision of high quality engineering degree programmes which are sound in the fundamentals of the engineering sciences, modern in terms of technological advances and which are designed to meet the present and future requirements of the profession. The extent to which this commitment is achieved may be gauged not only by the quality of our teaching and resources, but also by the contributions of our graduates in their future professional careers. It is important, therefore, that our graduating students be encouraged to follow the example set by others. The achievements of Dr Hughes should, by way of example, provide strong encouragement to the students who are to receive their degrees today and indeed to future graduates, that they should pursue their professional careers and role in society to the fullest extent in accordance with their individual talents and capabilities. This commitment is vital to Australia's future technological development and prosperity.

Chancellor, it gives me great pleasure to present to you Dr Walter Laurence Hughes for admission to the Honorary Degree of Doctor of Engineering.

EMERITUS PROFESSOR IAN McCOLL STEWART, A.M., ME(Qld),SM(MIT)

Presented for admission to the Honorary Degree of Doctor of Engineering by the Dean of the Faculty of Engineering, Professor A.W. Roberts.

Chancellor,

Today we honour a man who has made a significant contribution to this University, to the Engineering Profession in the Hunter Valley in particular and Australia in general, to the furtherance of knowledge through research in his field of specialisation and who has maintained an active interest in community affairs. Emeritus Professor Ian McColl Stewart's long career, most of which has been spent in the Hunter Valley, has focussed on fuels and combustion. It is through his research, scholarship and professional development work in this area that he has become most widely known and recognised.

Professor Stewart was educated in Brisbane, at Brisbane Boys College and then The University of Queensland, where he graduated in 1932 with first class honours in Mechanical and Electrical Engineering. In 1934 he was awarded a Walter and Eliza Hall Travelling Fellowship to study fuels, combustion and boiler heat transfer at The Massachusetts Institute of Technology (MIT) in the U.S.A. His research contribution in coal combustion with Professor Hoyt Hottel in 1936 is cited as the first proof that chemical reaction rates limit the rate of coal combustion.

It was to be some years before Ian Stewart continued his research within an academic environment. During the early 1940's he was employed by CSIRO to study the feasibility of food dehydration in Australia. As a result of this research, a number of food drying plants were designed, erected and commissioned.

Ian Stewart's long association with the coal mining industry began in 1949. Whilst employed as a fuel economy engineer with the Commonwealth Coal Commission he was responsible for the development of a general fuel economy programme for consumer service on coal use. At the same time, he provided technical advice to the Commissioner on coal allocation, commercial value of new mining...
proposals and technical services to open cut mining programmes. He continued his association with the coal mining industry and between the years 1949 to 1965 he was the chief engineer at Hebburn Ltd. where he was consultant to Mine Management on coal marketing and utilization and on mechanical and electrical services to the company's mines, including coal cleaning and power generation.

In 1965, Ian Stewart returned to academic life and was appointed foundation Professor of Chemical Engineering at the University of Newcastle. Until his retirement in 1977, he initiated and developed a research effort in coal combustion which received wide local and international recognition. One of the most significant projects he was involved with during the seventies (along with research students) was research on furnace heat transfer. This project yielded the first demonstration of the importance of fly ash in heat transfer from coal flames. As a consequence of his proposal for a research foundation in coal, the Institute of Coal Research was formed in 1981 with Professor Stewart as its foundation Chairman. From its formation to the present day, the Institute has continued to enhance its reputation.

As a result of his sound expertise, Ian Stewart has also been called to play a leading role in professional organisations as well as serving on a number of Commonwealth Government Advisory Committees. His sense of responsibility and commitment to the engineering profession is clearly demonstrated by his involvement with several professional bodies concerned with Fuels, Energy and Engineering. Notable in this respect has been his long and active membership of the Institution of Engineers, Australia; his contributions to the Institution have involved participation at the National and Newcastle Division levels and this included the holding of several important offices.

As befits a person who has made a significant contribution in their chosen area, Professor Ian McColl Stewart has been the recipient of a number of awards and honours. After his retirement in 1977 and in recognition of his contribution to the University, he was awarded the title of Emeritus Professor. He was also appointed Honorary Professor in the Department of Chemical Engineering. In recognition of his services to the Engineering profession, he was appointed to the Order of Australia in 1983 in the class of Member. In 1985 he was elected to Honorary Fellowship of The Institution of Engineers, Australia, the highest honour that the Institution can bestow. His citation on that occasion read:

'For services as a very active and prominent member of The Institution of Engineers, Australia, including member of the Newcastle Division Committee since 1960, a member of the National Committee on Chemical Engineering 1970-1974 and as Chairman 1973-1974 laid the foundations of the College of Chemical Engineers, of which he was foundation Chairman 1975-1976; and for services to chemical engineering in Australia'.

Professor Stewart remains very active in both professional engineering and community affairs. In addition to continuing his interest in coal research, he has guided the section on Engineering Heritage in the Newcastle Museum; this largely resulted from work on a Committee of the Institution of Engineers which he has chaired since 1980. This Committee has also produced the well-known book Shaping the Hunter.

Professor Stewart has been an active lay member of the Anglican Church for many years and served on the Council of St Johns College, Morpeth, and has also played a vigorous role in annual meetings of the Synod of the Diocese of Newcastle.

It is most fitting that we honour Professor Stewart for his achievements and contributions to the engineering profession, the community and the University. He is clearly a ‘friend of the University’ in the fullest sense.

Chancellor, it gives me great pleasure to present to you Emeritus Professor Ian McColl Stewart for admission to the Honorary Degree of Doctor of Engineering.
FACULTY OF ARCHITECTURE

Presented by the Dean of the Faculty of Architecture, Professor B.S. Maitland

BACHELOR OF SCIENCE (ARCHITECTURE)

Heidi Marie Castro Alegria
Chin Weng Yin
Chin Young Ting
Catherine Louise Colla
Richard John Cunningham
William Glenn Duncan
Philip Lawrence Ellis
Fong See Chet
Ian Duncan Gill
Goh Cheong Thet
Darren Hawkins
Kan Wai Tak
Samuel Matthew Leishman
Liew Tze Woon
Liew Siew Lan Karen
Lim Chee Kean
Mohd Azahari Madatan
Christine Anne Haines — with Merit
Ng Hong Ling — with Merit
Margaret Doreen Marcus
Harlina Md Sharif
Norzaini Noordin
Stephen Robert Nunan
Hannah Ong
Vanessa Anne Packwood
Phua Inn Inn
Catherine Shaw
Haris Sutanto
Tay Eng Khoon
Teh Chee Huat
Tiong Lea Hung
Surjanto Tirtabudi
Graham Kenneth Turner
Hendry Chee Choong Wan
Wong Yee Sing
Mazlan Yusof
Tan Chye Hin — with Merit
Yii Ming Hoo — with Merit

BACHELOR OF ARCHITECTURE

Chan Chaw Chuan, BSc(Arch)
Chin Wei Mean James, BSc(Arch)
Chua James Ching Ern, BSc(Arch)
Ruth Janet Daley, BSc(Arch)
Chua Caik Leng, BSc(Arch)
Honours Class II
Foo Henry Juk Shing,
BSc(Arch) Honours Class II
Katherine Margaret Gunton,
BAppSc(EnvDes)(CCAE)
Honours Class II
Peter David McMullen,
BSc(Met), BSc(Arch) Honours Class II
Yap Lip Pien, BSc(Arch)
Honours Class II
Kathy Marie Gresham,
BSc(Arch) Honours Class II
Lu Ong King, BSc(Arch)
Honours Class II

MASTER OF ARCHITECTURE

Henry Claudelle Clarke, BArch(Auckland,NZ)
Thesis: Six Radburn Housing Experiments in Australia 1961 - 1983:
With Particular Reference to the Canberra Experience
FACULTY OF EDUCATION

Presented by the Dean of the Faculty of Education, Dr S.F. Bourke

BACHELOR OF EDUCATIONAL STUDIES

Merle Evelyn Bruce
Krystyna Maria Cantwell
Jerry Douglas, BA, DipEd
Frederick Junior Herbert, BA
Heather Margaret Jackson
Lester Thomas Laurie James, BA

Daniel Joseph Joyce, BA
Harold Dudley Moore
Adrienne Jane Roberts
Theodora Aletta Van Moere
Geoffrey Stanley Watson

MASTER OF EDUCATIONAL STUDIES

Peter John Richards Baskin, BA(Avondale College), BEdStud
Joy Mary Cavanagh, BA, DipEd(Macq)
Margaret Anne Chapman, BA, DipEd
Robert John Keady, BA
Raymond Laurence Kelly, BA(NE), BEdStud
Anne Killen, BA

Grant Philip Lewis, BA(MCAE)
Judith Anne Murphy, BA
Graeme O'Brien, BA(Macq)
Jill Janina Scevak
David Curtis Sutcliffe, BA(Macq)
Michael Tam, BSc, BEdStud
Arthur Christian Tane, BA, BEdStud
Joan Mary Woodcock, BA, DipEd

MASTER OF SPECIAL EDUCATION

Pamela Anne Scott Bunn, BA(Macq), MEdStud

Thesis: A History of the Australian Disadvantaged Schools Program
Gwen Suters

MASTER OF EDUCATION

Robert Harley Cantwell, BA(Mon), BEdStud, DipEd(Mon)
Thesis: The Effects of a Second Language Background and Approach to Learning on the Comprehension and Writing of Expository Text by Senior Secondary and Tertiary Students

Stephanie Jean Moylan, BSc(NSW)
Thesis: Comparison Between the Essay Writing of Mature Age Students and Students Entering University Straight From School

DOCTOR OF PHILOSOPHY

Michael Thomas Leahy, BEd, MEd(Mon)
Thesis: Can Religious Education be Rationally Defended?

Arthur William Swan, BA, DipEd(Admin), MEd(Admin)(NE)
Thesis: Attitudes to Differentiated Staffing Practices in an Australian School System

AWARD OF DIPLOMAS

DIPLOMA IN EDUCATION

Pamela Gaye Ambler, BA(Qld)
Judith Anastopoulos, BA(South Africa)
Jesus Arjonilla, BA
Yvette Arvidson, BSc
Geoffrey Charles Badger, BCom
Frances Dianna Beilby, BEd(James Cook)
Ian Alexander Morton Bigmore, BA
Lucia Maria Bizzarri, BMath
John Joseph Blenkhorn, BA
Julie Maree Bowe, BA, BA(Hons)

Jo-anne Margaret Brady, BA
Simone Yvonne Brinkley, BA
Charlotte Brock, BSc(Qld)
Ian Ferris Brooker, BA
Peter John Brown, BA, MLitt(NE)
Kirsten Marea Buchhorn, BA
Leanne Michelle Butler, BA
Jeanette Paulina Castillo, BA(Wollongong)
Elizabeth Mary Clay, BA
Ian Charles Cooper, BSc
Jill Helen Cooper, BA
John Robert Cootes, BA
FACULTY OF ENGINEERING

Presented by the Dean of the Faculty of Engineering Professor A.W. Roberts

BACHELOR OF COMPUTER SCIENCE

Gertrud An Huef
Boon Suan Zin Zacchaeus
Rizalito Ouano Bucao
Lee Chai Suat
John Francis Shepherd
Phillip John Varley

BACHELOR OF ENGINEERING

In Chemical Engineering
Cheng Raymond Sin Hang
Kanchana Lakmini Doloswala
Noel William Lambert
Leslie Warren Armstrong
Bruce Chung
David John Condie
Mawahawati Gono
Josef Marzouk
Andrew Phillip Mills
Glenn Gordon Poynter
Hong Choy Ting
Honours Class II, Division II
Michael Kim Russell
Honours Class II, Division I
Grant Guy Bates
Honours Class I
Malcolm David Engel
Honours Class I and University Medal

In Civil Engineering
Ismail Abdul Rahman
Bruce Lindsay Ableson
Hasbollah Abu
Roedy Halim
Nicholas Anthony Hardy
Heng Yang Poo
Hor Chee Sum
Mark Leslie Hoskins
Kang Patrick Choon Hee
Matthew James Kelley
Vincent Joseph Keogh
Lai Fook Ming
Lal Joo Heng
Lee Dong Sik
Lee Sai Meng
Lim Ming Sin
John Allen Newton
Michael Edward Osborne
Sar Koon Kong
Michael Andrew Clayton
Honours Class II, Division II
David Leslie Lenihan
Honours Class II, Division II
Darren James Patch
Honours Class II, Division II
Adam Victor Smith
Honours Class II, Division II
Teo Siang Yang
Honours Class II, Division II

BACHELOR OF ENGINEERING

In Computer Engineering
Chuah Lip Jin
Michael John Grant
Yohan Jeevaratnam
David Stanley Jones
Lim Thou Liang
Bernard Levier
Honours Class II, Division II
Antony James Childs
Honours Class II, Division I
James Philip McGovern
Honours Class II, Division I

Sew Shuh Tyng
Pepen Syarifudin
Ton Peter Phat That
Francis Stephen Trezise
Adrienne Marie Warnock
Wong Soo Loong
Anthony John Owen Tietze
Honours Class II, Division I
Stephen George Fityus, BSc
Honours Class I
Martin David Haege,
BNatRes(NE) Honours Class I
Martin Francis Lambert
Honours Class I

Nalini Rohatgi
See Liang Chang
Rodney Keith Sommerville
Peter Richard Whitfield
David Paul Sherratt
Honours Class II, Division I
Andrew Gordon Lewer
Honours Class I
Lim Fang Yew
Honours Class I
Tham Siew Wah
Honours Class I
In Electrical Engineering
Ross Francis Alston
Andrew Blair Barton
Alan Neale Bonnard
David James Bowerman
Paul Andrew Brooker
Bruce Malcolm Carney Honours
Class II, Division II
Christopher Adrian Chock
Honours Class II, Division II
Gavin Anthony Mate Honours
Class II, Division II

Ahmad Zamri Hamdan
Anthony Robert James
John James Langley
Robert David Youman
Phillip Francis Southgate
Honours Class II, Division I
Peter Colin Ingram Honours
Class I
Rodney Keith Lewis Honours
Class I

In Industrial Engineering
Robert Alfred Greenwell
Anthony John O'Donnell
Keith David Kitching Honours
Class II, Division I

Tanet Phanichewa
Phillip Heyne Honours Class I

In Mechanical Engineering
Chin Wei Kian James
Fong Lap Hang
Gouw Tjin Tjie
Phillip Walter Halliday
Lau Chun Nam
Lee Koon-Hung Frank
Djoni Leo
Glenn Bernard McNally
Chan Yiu Hung Honours Class
II, Division II

Zulkiflee Mohamad
Zainal Mohd Zain
Flavio Victor Joseph Roncolato
Matthew John Squair
Tsui Francis Wing Fat
Anthony Wedesweiler
Tarso Widjaja
Chang Chee Sung Honours Class
II, Division II

Mark Andrew Clayton Honours
Class II, Division II
Michael Patrick Neville
Honours Class II, Division II
Teng Chia Yong Honours Class
II, Division II

Paul Martin Burrows Honours
Class I
Gilbert Gordon, BMath Honours
Class I
Koh Swee Guan Honours Class I

BACHELOR OF METALLURGY
Rhett Anthony Cleal
Leanne Marshall Honours Class
II, Division II
Graeme William Fitzgerald
Honours Class II, Division I

Mark Raymond Douglas
Honours Class I
Denise Carol Goldsworthy
Honours Class I and University
Medal

BACHELOR OF SURVEYING
Lloyd Neil Abbott
Ross John Hansen
Jarvis John Hamilton Lawes
Ian John McLeod
Eric Kevin Johnson Honours
Class II, Division I

Soledad Rodriguez
Ewan Elliott Smart
Allen Soo
Peter John Tate

BACHELOR OF COMPUTER SCIENCE (HONOURS)
Kathleen Flora Bill, BCom Class
III
Kenneth Bede Munzenberger,
BMath Class II, Division II
Paul Vincent Farrell, BMath
Class II, Division I

Foo Jong Tong, BMath Class II,
Division I
Naomi Kaye Thrift, BMath
Class II, Division I

MASTER OF COMPUTING
Brian George Regan, BSc, DipEd(Syd), DipCompSc
MASTER OF ENGINEERING

Department of Civil Engineering & Surveying
John Mervyn Mcluckie, BE
Thesis: The Polishing Characteristics of Blast Furnace Slag for Ashphaltic Concrete Surface Courses

Department of Electrical Engineering & Computer Science
Han Liang Zhang, BSc(East China Normal University)
Thesis: Table Lookup Digital Adaptive Echo Canceller

Department of Mechanical Engineering
Shane Keys, BE
Thesis: Proposal for the Development of the Tunra-Willems Vehicular Propulsion System

MASTER OF SURVEYING

Department of Civil Engineering & Surveying
Brian Edward Donnelly, BSurv(NSW), DipCompStud(CCAE)
Thesis: Film Flatness in 35mm Cameras

DOCTOR OF PHILOSOPHY

Department of Chemical Engineering
Erich Herold Kisi, BMet
Thesis: Atomic Arrangements in the Gamma Brasses

David Edward Langberg, BE(Qld)
Thesis: Factors Affecting the Water Recovery Rate During Froth Flotation

Eric Rodney Lindner, BSc, BE(Adel)
Thesis: A Study of Sodium-Ash Reactions During the Combustion of Pulverised Coal

Department of Civil Engineering & Surveying
James Edward Ball, ME
Thesis: Modelling of Unsteady Flows in Urban Drainage Works Including Some Effects on Manholes

Department of Mechanical Engineering
Stephen Edmund Samuels, BE, MEngSc(Mon)
Thesis: The Generation of Road Traffic Noise Under Interrupted Flow Conditions

Rajam Sankaran, BSc(Math)(Madurai, India), BTech(Aero/Eng)(Anna, India), ME(Aero/Eng)(Indian Inst of Sc India)
Thesis: Organised Motion in a Turbulent Spot

Dilip Kumar A Shah, BSc(MSBaroda), ME(Aero)(Indian Inst Sc Bangalore), DipAeroEng(MadrasInstitute of Tech)
Thesis: Scaling of the “Bursting” and “Pulse” Periods in Wall Bounded Turbulent Flows

AWARD OF DIPLOMAS

DIPLOMA IN COMPUTING
Kandaswamy Jeyamanotharan,
BSc(Jaffna,Sri Lanka)

DIPLOMA IN COMPUTER SCIENCE
Kenneth Wayne Ashton,
BEd(Syd)
Christopher Keith Cousins,
BA(Macq)
Edward Charles Herman,
BAppSc(TSIT)
Liu Shin Wan, BE
Ian David McGregor,
BSurv(NSW)
Leslie James Muldoon, BSc,
MEngSc
Leigh Ryan, BE(NSWIT)
Jeffrey Howard Smith, BSc
Teo Lian Hing, ME
John Lawrence Waddington,
BA(Macq)
Gary Andrew Thibou,
BAppSc(CCAE) — with Merit
Catherine Louise Thirkettle,
BCom — with Merit
PRIZES

FACULTY OF ARCHITECTURE
The Board of Architects of NSW Prize
The N B Pitt - RAIA Newcastle Division Prize
The Neville Clouten Architectural Synthesis Prize
The RAIA Annual NSW Chapter Prize
The Sydney C Morton Prize
The Newcastle Gas Company Prize
Kathy Gresham
Sharon Francis
Yii Ming Hoo
Yap Lip Pien
Peter McMullen
Tan Chye Hin

FACULTY OF EDUCATION
The Psychology in Education Prize
The Institute of Educational Research Prize
The Margaret Auchmuty Prize
The Department of Education Staff Prize
Robert Cantwell
Michael Leahy
Elsie Kellett
Catriona Moore

FACULTY OF ENGINEERING
The Engineering Fraternity Prize
The Australian Water and Wastewater Association (Newcastle Group) Prize
The Institution of Engineers Australia (Newcastle Division) Prize
The Australian Corrosion Association (Newcastle Branch) Prize
The Institution of Chemical Engineers (NSW Group) Prize
Phillip Halliday
Martin Lambert
Malcolm Engel
John Lerch
Malcolm Engel

The Newcastle Chemical Engineering Group Prize
The BHP Company Prize in Chemical Engineering
Andrew Beath

Department of Civil Engineering and Surveying
The Australian Photogrammetric Society Prize
The Association of Consulting Surveyors NSW Prize in Land Studies
The Board of Surveyors Medal
The Institution of Surveyors Australia Hunter-Manning Group Prize in Surveying
The Tony Herzog Award
The Hunter District Water Board Gold Medallion
The James Hardie Water Resources Engineering Prize
The ACSE Prize in Structural Engineering
The BHP Company Prize in Civil Engineering
Martin Lambert
Eric Johnson
Eric Johnson
Stephen Fityus
Martin Lambert

Department of Electrical Engineering and Computer Science
The Purdue Prize in Computer Engineering
The Purdue Prize in Circuit Fundamentals
The BHP Company Prize in Electrical and Computer Engineering
The Digital Prize in Computer Science II
The Digital Prize in Computer Science III
Peter Whitfield
Andrew Cox
Lim Chin Keng
Richard Mazzaferril
Boon Suan Zin
Zacchaeus
Department of Mechanical Engineering

The Ernest J Egan Prize          Phillip Halliday
The Les Gibbs Prize for Creative Design Patrick Quain
The Morison Prizes in Mechanical Engineering:
  Junior Prize                  not awarded
  Senior Prize                  Michael Neville
The W E Clegg Memorial Prize    Koh Swee Guan
The BHP Company Prize in Mechanical Engineering
  Paul Ebert
The BHP Company Prize in Metallurgy  not awarded
The Australasian Institute of Mining and Metallurgy (Newcastle Women's Auxilliary) Prize  not awarded
The Daniel Clark Award          not awarded
The Australian Institute of Metals (Newcastle Branch) Prize  not awarded
The Ernest Guy Smith Memorial Medal Denise Goldsworthy

THE GREAT HALL

The Great Hall was designed by Architects Ancher, Mortlock, Murray & Woolley, and was the winning entry in an Architectural competition. The Auditorium seats 1,450 people and the stage can accommodate a full Symphony Orchestra. The stepped ceiling of the Auditorium rises to over 19 metres and is lined with Brush-Box timber from the New South Wales north coast. The acoustic screen at the rear of the stage uses similar boarding.

The Great Hall was officially opened on 20 November, 1973. The project cost $1.3 million, more than half of which was donated in response to the Lord Mayor's Great Hall Appeal.

The Conn electronic pipe organ was made in the United States of America, and is the only one of its type and size outside that country. A wide range of music, from religious to avant-garde is played on the organ.

The lecterns on the stage were made by the Sydney woodcraftsman Leon Sadubin from Australian Blackwood (Acacia melanoxylon).

Some of the University's works of art are on display in the foyer and environs of the Great Hall, others are located in the Auchmuty Library and academic buildings.

On the wall to the east of the stage is a stainless steel emblem of the University’s Coat of Arms which was made by the Sydney designer Michael Santry. This was originally mounted above the entrance to the McMullin Building and was relocated in 1979.

The applique banners over the entrance doors to the Auditorium are by Newcastle artist Rae Richards. The banners facing into the Auditorium represent Arcadia on the left and on the right Academia. From the Foyer the banner over the right hand door is Bright Sun and over the left is Tree of Life.

The stained glass panels over the Convocation Doors at the main entrance into the Foyer were created by A. C. Handel and donated by the Joint Coal Board. They depict the Faculties of the University, and the Coat of Arms of the University and the City of Newcastle.

The large woven tapestry on the Foyer wall opposite the Convocation Doors, by Mary and Larry Beeston, is called Procession and is appropriately based on academic gowns worn at Graduation.

The bronze sculpture on a pedestal in the garden to the left of the main entrance to the Great Hall is by Marilyn McGrath, and is an abstract interpretation of growth from a single cell. It is entitled Nucleous

To the right of the main entrance in the corner of the upper terrace stands a recently acquired work by the late Otto Steen. It is a large head in terra cotta and was made available to the University by the artist's widow, Mrs Irene Steen.